



SUBJECT INDEX

DATAMATION.

Volume 14, Numbers 1 through 12, 1968

DATAMATION

Vol. 14, 1968

S U B J E C T I N D E X

of the following items:

Feature Articles
Conference Reports and Programs
Editor's Readout
Book Reviews
The Forum
News Scene
System Spotlight

Editorial Offices:
F.D. Thompson Publications, Inc.
94 So. Los Robles Ave.
Pasadena, Calif. 91101
213/681-8486

SUBJECT INDEX

AEROSPACE

- ACM Aerospace Software Seminar, Nov., 134
- NASCOM: NASA's Communications Network for Apollo, Dec., 4

AGRICULTURE

- Data Processing on the Farm, March, 84

ALEXANDER, SAM

- Sam Alexander, 1910-1967, Feb., 65

ALGORITHMS

- Book Review, Aug., 137

AMERICAN TELEPHONE & TELEGRAPH

- See: Communications

ANTITRUST

- Justice Dept. Asked to Investigate Charge of Unfair IBM Price Policy, Aug., 87

APPLICATIONS

- Aerospace: Nov., 134; Dec., 42
- Agriculture: March, 84
- Airlines: July, 85; Dec., 35, 142
- Banking: Aug., 71
- Insurance: May, 69
- Law Enforcement: June, 81
- Libraries: Jan., 48; Feb., 45; March, 33
- Manufacturing: Nov., 194
- Medical: Jan., 57; Aug., 33; Sept., 56
- Petroleum: Sept., 112
- Photocomposition: Oct., 148
- Publishing: Dec., 67
- Reservations: July, 85; Dec., 35
- Retail: March, 51; Dec., 83
- Vote Processing: Dec., 97

ANALOG/HYBRID SYSTEMS

- EAI's Analog/Hybrid 7800, Nov., 76

ARTIFICIAL INTELLIGENCE

- Hexapawn: A Learning Demonstration, March, 67

ASCII

- See: Communications, Standards

BANKING

- Diversity and Bank Intrusion, Jan., 142
- The National Automation Conference of the American Bankers Assn., Aug., 71

BIO-MEDICAL

- See: Medical

BOOK REVIEWS

- Privacy and Freedom, by Alan F. Westin, Jan., 119
- The Computer in American Education, D.D.

- Bushnell & D.W. Allen, ed., Feb., 115
- Data Processing Managers, by R.J. Harper et al, March, 143

- The Management of Computer Programming Projects, by C.P. Lecht, April, 200
- Computer System Selection--A Management Guide on How to Pick a Computer, by W.A. Weimer, May, 159

- Mechanical Man--The Physical Basis of Intelligent Life, by Dean E. Woolbridge, June, 155

- Programming the IBM 360, by Clarence B. Germain, July, 147

- System 360 Programming, by Saxton et al, July, 147

- The Art of Computer Programming. Vol. I: Fundamental Algorithms, by Donald E. Knuth, Aug., 137

- COBOL Simplified, by Mario V. Farina, Sept., 139

- Office Automation in Social Perspective, by H.A. Rhee, Oct., 157

- Computers, System Science, and Evolving Society, by Harold Sackman, Nov., 241
- The Technology of Teaching, by B.F. Skinner, Dec., 169

BUNKER-RAMO

- How I Learned to Stop Worrying and Make Bunker-Ramo a Success, Sept., 79

BURROUGHS CORP.

- Burroughs Says 8500 Problems Solved, Eyes Role in the Super-Computer Market, Aug., 85

BUSINESS DATA PROCESSING

- Business DP Degree Programs, July, 49
- See Also: Management, specific industries and applications

CANADA

- Computer Costs in Canada, Oct., 52

CARTERPHONE COMMUNICATIONS CORP.

- See: Communications

CATHODE RAY TUBES

- See: Terminals

CENTRAL PROCESSING UNITS

- A New Season, Editor's Readout, Feb., 21
- Burroughs Corp.: Burroughs Says 8500 Problems Solved, Eyes Role in the Super-Computer Market, Aug., 85

- Compagnie L'Internationale pour L'Informatique: French Industry Prepares for "Own Way" Fourth Generation, Sept., 74
- Data General: Data General's NOVA, Nov., 76
- Digital Equipment Corp.: Two More from DEC, Aug., 60; DEC's Time Share-8, Sept., 71
- Electronic Associates Inc.: EAI's Analog/Hybrid 7800, Nov., 76
- Hewlett-Packard: The Hewlett-Packard 2114A, April, 114
- Honeywell Inc.: The H-632, April, 98
- Lockheed Electronics: Lockheed's MAC 16, Nov., 72
- Motorola Instrumentation & Control Inc.: Motorola Makes the Mini Scene, Nov., 78
- National Cash Register Co.: The Century Series, March, 45
- Scientific Control Corp.: SCC Enters 16-Bit Computer Market, Nov., 78
- Varian: The DATA 520/i, April, 93
- CHECKOUT, AUTOMATED
Automatic Production Test System, Nov., 194
- CHINA, COMMUNIST
Computer Technology in Communist China, Feb., 39
- COBOL
See: Languages, Programming
- CODING
See: Programming
- COMMAND & CONTROL
Preliminary WWMCCS Specs Released; Changes May Be Made to Attract Bids, Nov., 137
PL/I for C&C? Dec., 26
- COMMUNICATIONS
Cost and Advantages of On-Line DP, March, 40
The FCC Utility Inquiry, April, 32
Message Concentration, April, 45
Making the Connection, Editor's Readout, May, 21
Government Policy Implications in Data Management, June, 37
FCC Carterfone Decision Unsettles Carriers, Encourages Modem Makers, Aug., 86
New Wideband Data Communications Devices, Sept., 62
McCall First in Line if Comsat Gets Its Satellite Plan Approved, Sept., 73
Release Due for Federal Directive on ASCII Use, Oct., 69
- The Carterfone Case Again--It May Be Too Early to Rejoice, Oct., 71
- Trade Groups Attack Proposed New AT&T Tariff; FCC Rejection Urged, Nov., 139
- University Computing Gets Going on Common Carrier, Pursues Gulf Plan, Nov., 140
- NASCOM: NASA's Communications Network for Apollo, Dec., 42
- Latest ASCII Conversion Letter Clarifies Federal Requirements, Dec., 103
- COMPILERS
PL/I Compile Time Facilities, Dec., 32
SABRE PL/I, Dec., 35
- COMPUTER APPLICATIONS, INC.
Computer Applications Explains Its Problems, Plans for Change, Oct., 77
- COMPUTER-ASSISTED INSTRUCTION
Instructional Uses of Interactive Computer Systems, Sept., 22
Current Problems in CAI, Sept., 28
CAI Languages: Capabilities and Applications, Sept., 34
CAI--The New Demonology? Sept., 38
PLANIT--A Language for CAI, Sept., 41
Economic Development Committee Says CAI Costs Prohibitive, Sept., 74
CAI Curriculum and Instruction Strategies, Dec., 90
Book Review, Dec., 169
- COMPUTER MANUFACTURERS
See: Central Processing Units
- COMPUTER PERFORMANCE
Evolving Computer Performance 1963-1967, Jan., 31
- COMPUTER SELECTION
A Potential Savings Yardstick, March, 59
Book Review, May, 159
- CONFERENCES, PROGRAMS
The 1968 Spring Joint Computer Conference, April, 109
The 1968 DPMA Conference, June, 79
IFIP Congress 68, July, 34
1968 ACM Conference and Exposition, Aug., 66
Show Biz, Editor's Readout, Nov., 41
The 1968 Fall Joint Computer Conference, Nov., 93
- CONFERENCES, REPORTS
ABA: The National Automation Conference of the American Bankers Assn., Aug., 71
American College of Cardiology: Computers in Electrocardiography, Jan., 57

- American Management Assn.: The Problems of Packaged Programs, April, 75
- Assn. for Computing Machinery: Effective Use of High Level Languages, June, 86; Conference on Personnel Research, Aug., 74; ACM Session Attacks Problem of Programming Management Economics, Oct., 72; ACM Aerospace Software Seminar, Nov., 134; PL/I Forum Gives Users and Builders a Look at Progress and Problems, Nov., 140; ACM Symposium Tackles Urban Ills, Dec., 74
- Calif., State of, Intergovernmental Board on Automatic Data Processing: California State EDP, March, 96
- Inst. for Computer Assisted Instruction, Inc.: CAI Curriculum and Instruction Strategies, Dec., 90
- Life Office Management Assn.: Insurance Automation Forum, May, 69
- McDonnell-Douglas: Aerospace Technology and Urban Systems, April, 85
- Nat'l. Retail Merchants Assn.: Retailers and EDP, Dec., 83
- Nat'l. Symposium on Law Enforcement Sci. & Tech.: Can EDP Win the War on Crime? June, 81
- Society for Information Display: Info '68, July, 68
- CONSULTANTS
- Help Wanted, Editor's Readout, April, 21
- COST OF EDP
- Cost and Advantages of On-Line DP, March, 40
- Computer Costs in Canada, Oct., 52
- DASHEW BUSINESS MACHINES
- "Back from the Brink"...or "The Perils of Dashew Business Machines," Dec., 95
- DECISION TABLES
- Planning Networks & Resource Allocation, Jan., 36
- The Need for Imprecision, Feb., 143
- Decision, Not Imprecision, March, 172
- The Meaning of Imprecision, July, 170
- DESIGN, LOGICAL
- Logical Design of Digital Computers, May, 22
- Logical Design: Memory Elements, Nov., 42
- DESIGN, SYSTEMS
- How Do Committees Invent? April, 28
- EDUCATION
- Computers in the Schools: Palo Alto, June, 57
- Book Review: Feb., 115; Dec., 169
- See Also: Computer-Assisted Instruction; Schools, EDP
- ELECTIONS
- See: Vote Processing
- EUROPE
- Time-Sharing in Europe, July, 23
- Software in Europe, July, 28
- Over There Again, Editor's Readout, Sept., 21
- See Also: The Individual Countries
- EUROPE, EASTERN BLOC
- Computer Sales to the East, July, 31
- FEDERAL COMMUNICATIONS COMMISSION
- See: Communications
- FILE MANAGEMENT SYSTEMS
- The Mark IV System, Jan., 28
- See Also: Information Storage & Retrieval, Software
- FINANCIAL
- Introduction to Going Public, Aug., 50
- New Standards to Help Brokers Get Out From Under the Paper Mess, Sept., 77
- See Also: Banking
- FRANCE
- French Industry Prepares for "Own Way" Fourth Generation, Sept., 74
- GENERAL ELECTRIC CO.
- A New Face in Phoenix, July, 52
- GOVERNMENT, FEDERAL
- Congress Seeks a Systems Approach, May, 46
- Government Policy Implications in Data Management, June, 37
- See Also: Communications, Libraries, Procurement, Standards
- GOVERNMENT, STATE & LOCAL
- California State EDP, March, 96
- Aerospace Technology and Urban Systems, April, 85
- See Also: Law Enforcement
- GRAPHICS
- Info '68, Conference Report, July, 68
- GREAT BRITAIN
- See: United Kingdom
- HARDWARE
- Large Scale Integration: A Status Report, Feb., 37
- A Survey of IS&R Equipment, March, 27
- A Fourth Generation Computer Now? April, 37
- Low-Cost Remote CRT Terminals, June, 22

Separate Hardware/Software Pricing? June, 72

Let's Reprice Obsolescent Equipment, Editor's Readout, July, 21

See Also: Central Processing Units; Design, Logical; Memories; Peripherals

HISTORY

Chess and the Computer, April, 65

Information Systems: A Brief Look into History, Nov., 63

HUMOR

The Common Business Oriented Goldilocks, Jan., 54

A New Season, Editor's Readout, Feb., 21

What is Systems Programming? Feb., 58

The End of OS, April, 72

360 Address, April, 206

In Each of Us a Monster Dwells, June, 48

A Theorem in Googology, July, 143

An Investigation Into an Emotionalized Computer System, Aug., 61

Data Dump, Sept., 80

What They Really Mean, Oct., 67

Presenting Papers for Pleasure and Profit, Nov., 84

Laws of Computer Programming, Nov., 259

Odes to a New Language, Dec., 39

INFORMATION STORAGE & RETRIEVAL

Information Retrieval: An Introduction, March, 22

A Survey of IS&R Equipment, March, 27

CAS Computer-Based Information Services, March, 33

See Also: Libraries

INPUT/OUTPUT

The Army's New Unit Record Concept, May, 60

The MT/ST Tape Reader, May, 65

INSURANCE

Insurance Automation Forum, May, 69

IBM

An Experimental 360/40 for Time-Sharing, April, 39

Justice Dept. Asked to Investigate Charge of Unfair IBM Price Policy, Aug., 87

IBM Service Bureaus Combined: SBC, IMD, Dec., 97

JAPAN

A Visit to Japanese Computer Centers, Nov., 79

LANGUAGES, PROGRAMMING

Effective Use of High Level Languages, June, 86

CAI Languages: Capabilities and Applications, Sept., 34

COBOL: Modular Programming in COBOL, May, 50; COBOL versus UNCOBOL, June, 67; Book Review, Sept., 139; The U.S.A. Standard--COBOL, Nov., 82

PL/I: PL/I Forum Gives Users and Builders a Look at Progress and Problems, Nov., 140; PL/I at the Crossroads, Editor's Readout, Dec., 21; A Comparative Evaluation of PL/I, Dec., 22; PL/I for C&C? Dec., 26; PL/I Compile Time Facilities, Dec., 32; SABRE PL/I, Dec., 35; Odes to a New Language, Dec., 39

PLANIT: PLANIT--A Language for CAI, Sept., 41

LSI

See: Hardware

LATIN AMERICA

Computing in Latin America, March, 93

LAW ENFORCEMENT

Can EDP Win the War on Crime? June, 81

LAWSUITS

See: Antitrust

LEASCO DATA PROCESSING EQUIPMENT CORP.

While Others Lease--Leasco Buys, Buys, Buys, Oct., 70

LEASING

Third Party Leasing, Aug., 22

Introduction to Leasing, Aug., 26

While Others Lease--Leasco Buys, Buys, Buys, Oct., 70

LIBRARIES

Mechanization in Defense Libraries, Jan., 48

Computerized Library Catalog, Feb., 45

CAS Computer-Based Information Services, March, 33

MAINFRAMES

See: Central Processing Units

MANAGEMENT

Project Control for DP, Feb., 33

The Facts of Life, Editor's Readout, March, 21

Cost and Advantages of On-Line DP, March, 40

A Potential Savings Yardstick, March, 59

How Do Committees Invent? April, 28

- Management and the New Software, April, 52
An Experiment in Data Processing Management, June, 64
Trouble...I Say Trouble, Trouble in DP City, Editor's Readout, Aug., 21
Computer Costs in Canada, Oct., 52
ACM Symposium Attacks Problem of Programming Management Economics, Oct., 72
Dynamic Multiprogramming at Douglas, Nov., 52
Computers in the World of Real People, Dec., 47
Tact Will Improve Your Input Data, Dec., 58
Book Reviews: March, 143; April, 200; May, 159
- MANAGEMENT INFORMATION SYSTEMS
Off-Line Management, June, 43
A President's View of MIS, Nov., 59
- MCCALL CORP.
McCall First in Line of Comsat Gets Its Satellite Plan Approved, Sept., 73
- MEDICAL
Computers in Clinical Electrocardiography, Jan., 57
SIM-I, The Model Patient, Aug., 33
Information Systems Need Nurses, Sept., 56
- MEMORIES
What's Next in Memories? Feb., 30
Logical Design: Memory Elements, Nov., 42
- NASA
NASCOM: NASA's Communications Network for Project Apollo, Dec., 42
- NUMERICAL CONTROL
A Digital Resolver for the PDP-8/S, Aug., 46
- ON-LINE DP
Cost and Advantages of On-Line DP, March, 40
- OPTICAL CHARACTER RECOGNITION
OCR for Handling Publication Subscriptions, Dec., 67
- PERIPHERALS
A Survey of IS&R Equipment, March, 27
The Demise of the Keypunch, March, 51
The MT/ST Tape Reader, May, 65
See Also: I/O, Terminals
- PERSONNEL
The ACM Conference on Personnel Research, Aug., 74
ACM Session Attacks Problem of Programming Management Economics, Oct., 72
- PETROLEUM INDUSTRY
Mobil Oil Image Processing Oil Well Analyzing System, Sept., 112
- PHOTOCOMPOSITION
Telephone Book Printing System, Oct., 148
- PRIVACY
See: Social Implications
- PROCUREMENT
Federal Buying and the Independents, July, 63
Preliminary WWMCCS Specs Released; Changes May Be Made to Attract Bids, Nov., 137
- PLANIT
See: Languages, Programming
- PL/I
See: Languages, Programming
- PROGRAMMING
A Hexadecimal Pronunciation Guide, Jan., 45
What is Systems Programming? Feb., 58
Modular Programming in COBOL, May, 50
Program Testing and Validating, July, 39
Program Quality Assurance, Oct., 61
ACM Session Attacks Problem of Programming Management Economics, Oct., 72
Dynamic Multiprogramming at Douglas, Nov., 52
Book Reviews: April, 200; July, 147; Aug., 137
- PUBLISHING
Telephone Book Printing System, Oct., 148
OCR for Handling Publication Subscriptions, Dec., 67
- QUALITY ASSURANCE
Quality Control for R&D, April, 238
Program Quality Assurance, Oct., 61
- RESEARCH & DEVELOPMENT
Quality Control for R&D, April, 238
- RESERVATION SYSTEMS, AIRLINE
Airlines Approach On-Line Agent System, July, 85
SABRE PL/I, Dec., 35

SCHOOLS, EDP

EDP Schools--An Inside View, April, 22
Selecting a Private EDP School, May, 33
Systems Training in the U.K., July, 26
Certification and Accreditation, Sept., 183

See Also: Education, Universities

SEPARATE PRICING

Separate Hardware/Software Pricing? June, 72
On the Economics of the Software Market, Oct., 28
The Software Package Dilemma, Oct., 199
The Package Dilemma, Nov., 283

SERVICE BUREAUS

Diversity and Bank Intrusion, Jan., 142

SIMULATION

SIM-I, the Model Patient, Aug., 33
Aircraft Pilot Training System, Dec., 142

SOCIAL IMPLICATIONS

Villain or Scapegoat? May, 182
One Way to Help, Editor's Readout, June, 21
In Each of Us a Monster Dwells, June, 48
A Foothold, Not a Handout, June, 180
A Public Education System, Aug., 177
Computers and the Law of Privacy, Sept., 49
ACM Symposium Attacks Urban Ills, Dec., 74
Information as a Product, Dec., 217
Book Reviews: Jan., 119; June, 155; Oct., 157; Nov., 241

SOFTWARE

General Purpose Software, Jan., 22
Management and the New Software, April, 52
The Problems of Packaged Programs, April, 75
Software for Terminal-Oriented Systems, June, 30
Separate Hardware/Software Pricing? June, 72
Software in Europe, July, 28
What to Do Until the Software Package Guru Comes, Editor's Readout, Oct., 21
Software Package Acquisition, Oct., 22
On the Economics of the Software Market, Oct., 28
Legal Aspects of Proprietary Software, Oct., 32
Software Packages: Users Speak Out, Oct., 40
A User Looks at Software, Oct., 48
The Software Package Dilemma, Oct., 199
Aerospace Software Seminar, Nov., 134

The Package Dilemma, Nov., 238
See Also: Compilers; Languages, Programming; Programming

STANDARDS

Making the Connection, Editor's Readout, May, 21
New Standards to Help Brokers Get Out from Under the Paper Mess, Sept., 77
Release Due for Federal Directive on ASCII Use, Oct., 69
The U.S.A. Standard--COBOL, Nov., 82
PL/I at the Crossroads, Editor's Readout, Dec., 21
Latest ASCII Conversion Letter Clarifies Federal Requirements, Dec., 103

STOCKBROKERAGE

See: Financial

TERMINALS

Low-Cost Remote CRT Terminals, June, 22
Software for Terminal-Oriented Systems, June, 30

TIME-SHARING

An Experimental 360/40 for Time-Sharing, April, 39
Message Concentration, April, 45
Some Problems with Time-Sharing, May, 43
Time-Sharing in Europe, July, 23
DEC's Time Share-8, Sept., 71
The Time-Sharing Market: Assets and Liabilities, Nov., 50

TRAINING

See: Schools, EDP

TYPESETTING, COMPUTERIZED

Telephone Book Printing System, Oct., 148

UNITED KINGDOM

Systems Training in the U.K., July, 26

UNIVERSITIES

"Curriculum '68," May, 114
Business DP Degree Programs, July, 49

UNIVERSITY COMPUTING CO.

University Computing Gets Going on Common Carrier, Pursues Gulf Plan, Nov., 140

URBAN SYSTEMS

See: Government, State & Local; Social Implications

VOTE PROCESSING

Computers, Elections and Television--You Can Win Some of Them, Dec., 97

